

# **PIONEER**



STEREO TURNTABLE

PL-4-0 S
S/G

For descriptions and adjustment methods of the D.D.motor and the mechanism employed in this model, refer to the Supplementary Service Manual (ART-467) for the PL-200, PL-255, PL-300, and PL-400 models.

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## 1. SPECIFICATIONS

Motor and Turntable
Drive System Direct-drive
Motor Quartz PLL Hall motor
Turntable Platter310mm diam. aluminum alloy die-cast
Moment of Inertia 180kg-cm <sup>2</sup> (including platter mat)
Speeds
Wow and Flutter Less than 0.025% (WRMS) Signal-to-Noise Ratio More than 75dB (DIN-B)
(with Pioneer cartridge model PC-150)
Rotational Characteristics
Build-up Time Within 120° rotation at 33-1/3rpm
Speed Deviation Less than 0.002%
Speed Drift Less than 0.00008%/h at 33-1/3rpm
Less than 0.00003%/degree temp. change at 33-1/3rpm
Tonearm
Type Static-balance type, S-shaped pipe arm
Effective Arm Length
Overhang 15.5mm
Usable Cartridge Weight 4g (min.) to 9g (max.)
Subfunctions
Full auto mechanism, Anti-skating force control, Stylus pressure
direct-readout counterweight, Cueing device, Strobe light, Free stop
hinges
Semiconductors
ICs

Transistors       3         Diodes       6         Hall Elements       3
Miscellaneous
Power Requirements:
AC110-120/220-240V ~ (switchable), 50,60Hz
Power Consumption
Dimensions
16-1/2(W) x 3-13/16(H) x 14-3/8(D)in.
Weight
PC-150 Specifications
Type Moving magnet type
Stylus
Output Voltage 3.5mV (1kHz, 50mm/s LAT)
Tracking Force 1.7g to 2.5g (proper 2.2g)
Frequency Response
Recommended Load
Accessories
EP Adapter
furnished on model for WE)
NOTE:
Specifications and design subject to possible modification without
notice, due to improvements.

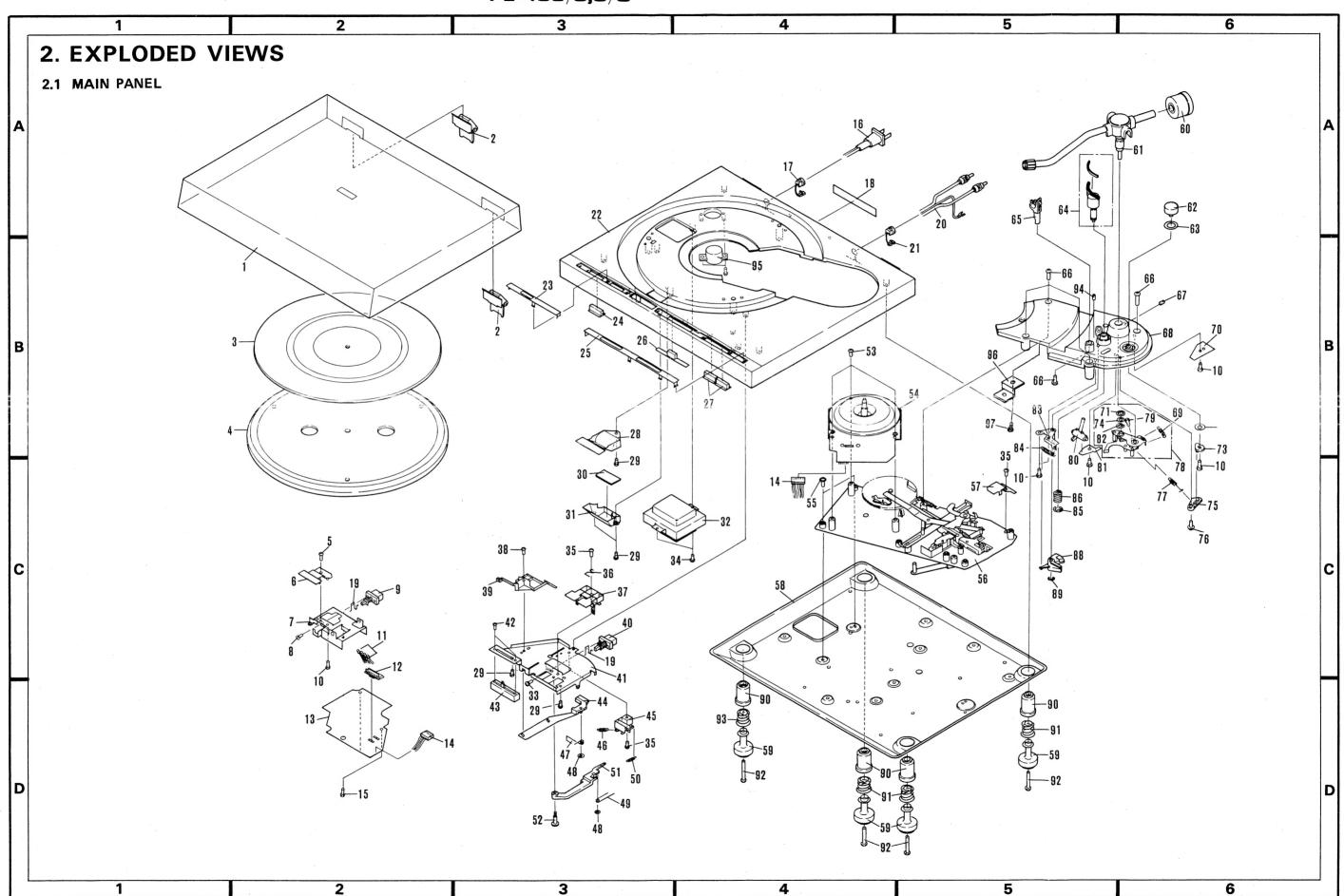
## LINE VOLTAGE SELECTOR SWITCH

The line voltage selector switch is located on the top surface of the cabinet of this turntable. Before your turntable is shipped from the factory, the switch is set to the power requirements of the turntable's destination, check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

- 1. Disconnect the power cord.
- Provide yourself with a medium-sized screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the white mark by the arrow on the label.



S and S/G model



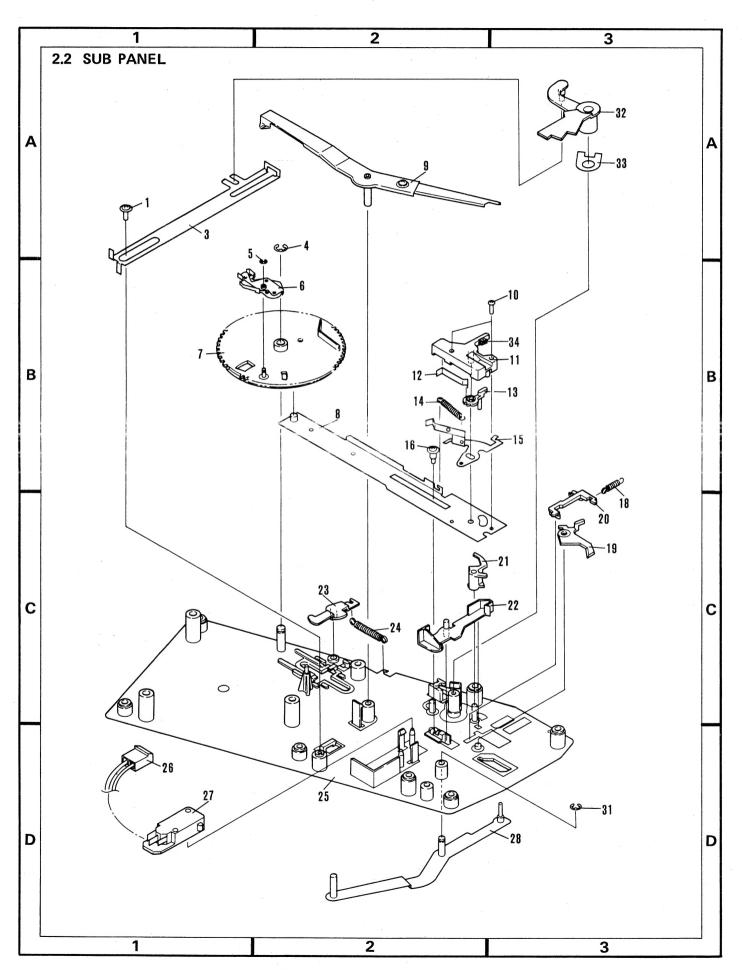
#### Parts List of Main Panel

#### NOTE:

• Parts without part number cannot be supplied.

• The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

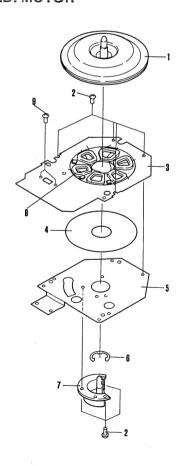
		cal designation.			
Key No.	Part No.	Description	Key No.	Part No.	Description
1.	PNV-034	Dust cover	51.	PNX-069	Lever B
2.	PXB-155	Hinge assembly	52.	PBA-102	Shaft
3.	PEB-150	Rubber mat assembly	53.	PBA-108	Brazier deltite screw 3 x 25
3. 4.	PNR-115	Turntable platter	54.	PXM-075	Motor
5.	FNN-113	Deltite screw 3 x 8	55.	PBA-109	Deltite screw (in flat washer) $3 \times 17$
6.		Button guide C	56.		Sub panel assembly
7.		Angle	57.		Protector
		Semes A screw 3 x 5	58.		base
8.	DCC 000	Push switch	59.	PNX-062	Foot case
9. 10.	PSG-020	Taptite P screw 3 x 8	60.	PXB-092	Weight assembly
44	DD55040	150	61.	PPD-591	Arm assembly
11.	BR5504S	LED	62.	PAC-045	AS knob
<sub>^</sub> 12.		LED base	63.	PBF-005	AS washer
₫13.		Power supply assembly	64.	PXB-107	EV sheet assembly
14. 15.	PDE-062	Connector assembly Taptite P screw 3 x 8	65.	PXB-094	Arm rest assembly
				DD 4 400	Brazier deltite screw 3 x 25
<u> </u>	PDG-004	AC power cord	66.	PBA-108	
17. 18.	REC-058	Strain relief Label	67.		Hexagon socket headless set screw 4 x 8
19.	PBH-261	Spring	68.	PNX-053	Arm base
20.	PDE-044	OUTPUT cord	69.	PBH-244	Spring
20,	102-044	00110.00.0	70.	1011244	OUTPUT terminal
21.	PEC-056	Strain relief	70.		
22.	PNX-122	Panel	71.		CS type washer CSTW-4SUS
23.	PAM-062	Name plate	71. 72.	PBE-012	Washer
23. 24.	PAC-043	Push button			AS adjusting plate
24. 25.	PAM-063	Name plate	73.	PNX-054	Flat washer 4
25.	FAW-003	Name place	74. 75.	PNX-055	Lever
26.	PAC-046	Knob			
27.	PAC-043	Push button	76.		Washer faced taptite P screw 3 x 10
28.	PNX-082	Lens	77.	PBH-236	Spring
29.		Taptite P screw 3 x 8	78.	PXB-097	PU plate assembly
30.		Mirror	79.		Pan head screw 4 x 8
			80.	PXT-382	Lever
, 31.		Lens holder			
<u>^</u> 32.	PTT-087	Power transformer	81.	PBK-042	Plate spring A
33.		Semes A screw 3 x 5	82.	PNB-405	PU washer
34.		Taptite P screw 4 x 10	83.	PXT-385	Plate spring B
35.		Deltite screw 3 x 8	84.	PBH-238	EV cam spring
			85.		E type washer 7
36.	PBH-260	Spring			
37.	PNX-076	Button guide B	86.	PBH-237	Spring
38.			87.		
39.	PNX-071	Guide	88.	PNX-059	Cam
40.	PSG-018	Push switch	89.		E type washer 3
41.		Control base	90.	PEB-163	Rubber cushion
41.		Pan head screw 2.6 x 5	04	PBH-241	Foot spring B
	DOC 017	Volume	91.		
43.	PCS-017		92.		Screw
44.	PNX-072	Slider	93.		Foot spring A
45.	PNX-070	Lever	94.		Hexagon socket headless set screw 3 x 12
46.	PBH-245	Spring A			
47.	PBH-248	Spring	<u>^</u> 95.	PSB-006	Line voltage selector
48.		Push nut $3\phi$	96.		Holder
49.	PBH-247	Operating spring A	97.		Taptito B screw screw 3x12
50.	PBH-246	Spring B.	37.		i aprile D solott solott on in
	-				



### Parts List of Sub Panel

Cey No.	Part No.	Description	Key No.	Part No.	Description
1.		Washer faced taptite P screw 3 x 10	21.	PNX-031	Switch plate
2.			22.	PNX-030	Switch lever
3.	PNC-103	Lever	23.	PNX-035	Plate
4.		E type washer 4	24.	PBH-225	Spring
5.		E type washer 1.5	25.		Sub panel unit
6.	PYY-058	Return signal unit	<u> </u>	PDE-070	Connector assembly
7.	PNX-036	Cam	<u> </u>	PSF-009	Microswitch
8.	PXT-356	Plate	28.	PXT-388	START lever unit
9.	PXT-390	Detector lever	29.		
10.		Pan head screw 2.6 x 10	30.		
			31.		E type washer 3
11.	PNX-033	EV cam	32.	PNX-034	Cam
12.	PBK-038	Plate spring	33.	PBK-039	Washer
13.	PNX-032	Cam	34.	PEC-064	EV cam cushion
14.	PBH-224	Spring			
15.	PXT-357	START unit			
16.	PBA-103	Screw			
17.					
18.	PBH-223	Spring			
19.	PNX-028	Plate			
20.	PNX-029	Selector			

### 2.3 D.D. MOTOR



Key No.	Part No.	Description	
1.		Rotor unit	
2.		Taptite screw 3x5	
3.		Control assembly	
4.		Insulator	
5.		Base unit	
6.		EW12	
7.		Shaft holder	
8.		Coil	
9.		Taptite screw 3x12	
4. 5. 6. 7. 8.		Insulator Base unit EW12 Shaft holder Coil	

## 3. SCHEMATIC DIAGRAM AND PARTS LIST

#### NOTE:

CAPACITORS

- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).  $560\Omega 56 \times 10^{1} 561 \dots RD^{1}4PS \text{ Iso} J$  $47k\Omega 47 \times 10^{3} 473 \dots RD^{1}4PS \text{ AT3} J$  $0.5\Omega 0R5 \dots RN2H \text{ OR5} K$
- Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).  $5.62k\Omega 562\times 10^{1} 5621\ldots RN^{1}4SR \text{ IGGZI } F$

—010 ..... RS1P @ID K

• The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

#### Parts List of D.D. motor (PXM-075)

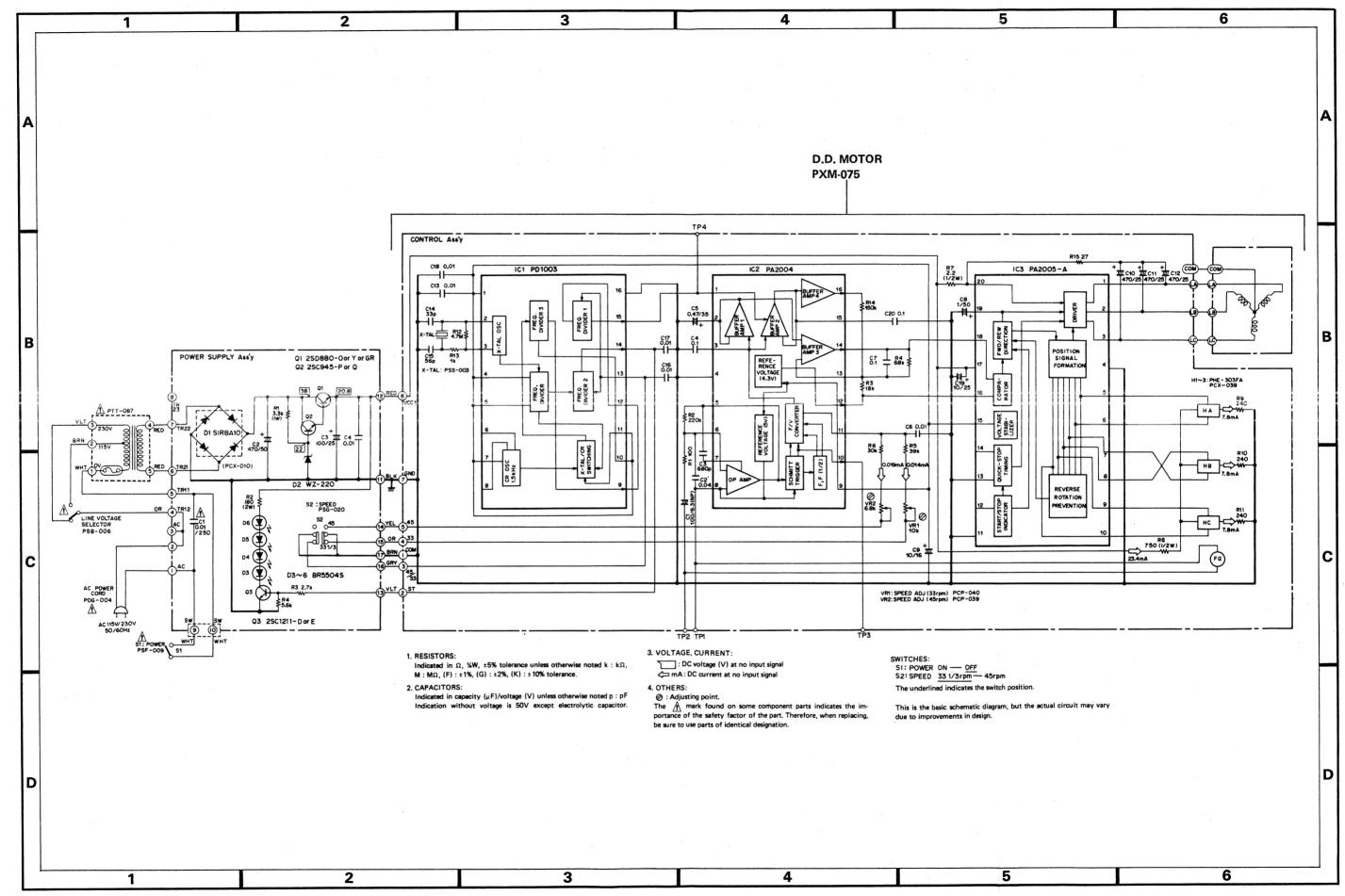
### Parts List of Power Supply Assembly

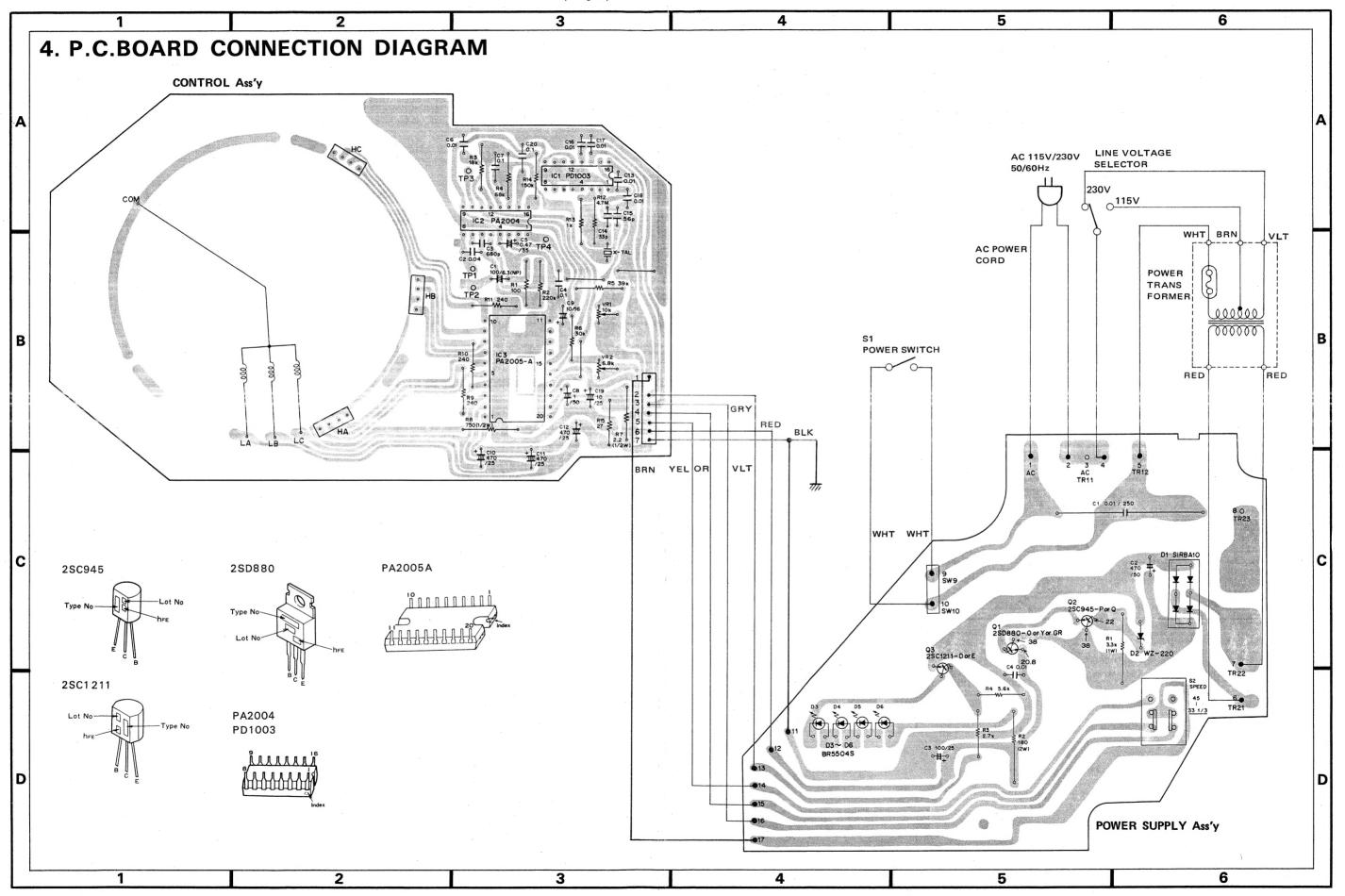
CAFACITORS			raitivo.
Part No.	Symbol 8	Description	2SD880
		A CONTRACTOR OF THE CONTRACTOR	2SC945
CEA 101M 6,3NP	C1		2SC1211
CKDYF 403Z 50	C2		PCX-010
CKDYB 681K 50	C3		WZ-220
CQMA 104J 50	C4		BR5504S
CSZA R47K 35	C5		
			CKDYF 1032
CKDYF 103Z 50	C6, C13,	C16-C18	CEA 471M 5
CQMA 104K 50	C7, C20		CEA 101M 2
CEA 010P 50	C8		<b>№ PCL-032</b>
CEA 100P 16	C9		
CEA 471P 25	C10-C12		RD%PS 272
			RS2PF 181J
CCDCH 330J 50	C14		RS1PF 332J
CCDCH 560J 50	C15		RD%PS 562.
CEA 100P 25	C19		
Note:	When orde	ering resistors, convert the	PSG-020
RESISTORS	resistance	value into code form, and	PDE-062
	then rewr	ite the part no. as before.	PNX-015
Part No.	Symbol &	Description	PBH-261
RD%PS DDDJ	R1-R6, F	R9-R15	
RD½PS □□□J	R7, R8		
PCP-040	VR1	(10k-B)	
PCP-039	VR2	(6.8k-B)	

Part No.	Symbol 8	& Description
2SD880	Q1	
2SC945	Q2	
2SC1211	Q3	
PCX-010	D1	
WZ-220	D2	
BR5504S	D3-D6	
CKDYF 103Z 50	C4	
CEA 471M 50L	C2	
CEA 101M 25L	C3	
<b>⚠ PCL-032</b>	C1	
RD%PS 272J	R3	
RS2PF 181J	R2	
RS1PF 332J	R1	
RD%PS 562J	R4	
PSG-020	<b>S2</b>	Speed selector
PDE-062		Connector assembly
PNX-015		Insulator
PBH-261		Push button spring

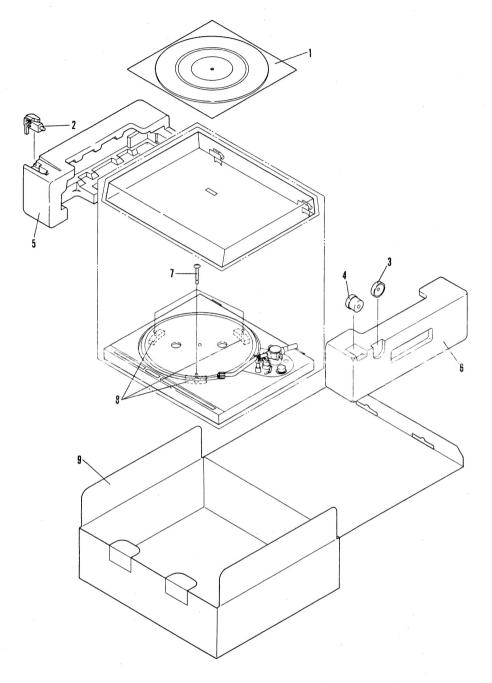
#### SEMICONDUCTORS AND OTHERS

Part No.	Symbol & I	Description
PD1003	IC1	
PA2004	IC2	
PA2005A	IC3	
PHE-303FA	H1-H3	Hall element
PSS-003	Crystal	





## 5. PACKING



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St

Key No.	Part No.	Description
1.	PEB-150	Rubber mat assembly
2.	PXA-792	Headshell assembly
	PXT-967	Cartridge assembly
	PBA-905	Cartridge mounting screw
3.	N93-603	45 adaptor

Key No.	Part No.	Description
4.	PXB-092	Weight assembly
5.	PHA-107	Side protector L
6.	PHA-108	Side protector R
7.	PBA-100	Screw
8.	PNX-064	Turntable protector
9.	PHG-393 (S) PHG-368 (S/G)	Packing case
	PRB-133	Operating instructions
	H56-603	Vinyl bag